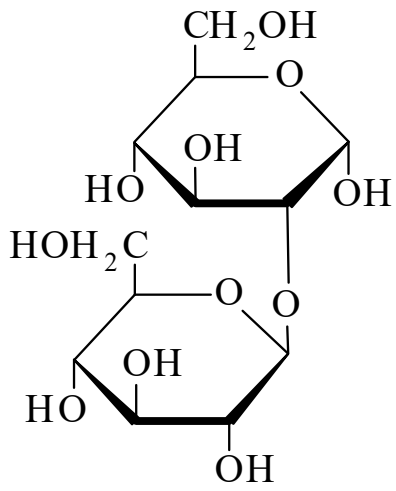
>>**Entry Name: 2-*O*-β-D-Glucopyranosyl-D-glucose,** 9CI
Synonym(s): Sophorose



a-Pyranose-*form*

CAS Registry Number: 534-46-3

Molecular Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.299
Accurate Mass: 342.116215
Percentage Composition: C 42.11%; H 6.48%; O 51.42%
Biological Source: Disaccharide from *Sophora japonica*, obt. by hydrol. of Stevioside or Kaempferol-sophoroside. Also occurs as glycosides in *Torulopsis magnoliae* and prod. by various *Acetobacter* spp.
Physical Description: Needles (MeOH aq.)
Melting Point: Mp 196-198°
Optical Rotation: $[\alpha]_D^{20}$+33 → +19.1 (c, 1.2 in H_2O)

>>**Variant:** α-Pyranose-form

CAS Registry Number: 20880-64-2
Molecular Formula: $C_{12}H_{22}O_{11}$
Molecular Weight: 342.299
Accurate Mass: 342.116215
Percentage Composition: C 42.11%; H 6.48%; O 51.42%

>>**Derivative:** Octa-Ac
Synonym(s): Octa-*O*-acetyl-α-sophoropyranose

CAS Registry Number: 38358-39-3

Molecular Formula: $C_{28}H_{38}O_{19}$
Molecular Weight: 678.597
Accurate Mass: 678.200735
Percentage Composition: C 49.56%; H 5.64%; O 44.80%
Melting Point: Mp 111°
Optical Rotation: $[\alpha]_D^{17}$+45 ($CHCl_3$)

>>**Derivative:** Benzyl glycoside
Synonym(s): Benzyl 2-*O*-β-D-glucopyranosyl-α-D-glucopyranoside. Benzyl α-D-sophoropyranoside

Molecular Formula: $C_{19}H_{28}O_{11}$
Molecular Weight: 432.424
Accurate Mass: 432.163165
Percentage Composition: C 52.77%; H 6.53%; O 40.70%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 214-215°
Optical Rotation: $[\alpha]_D^{25}$+90.6 (c, 1.6 in H_2O)